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Search Results - Record(s) 1 through 3 of 3 returned.

1. Document ID: US 6146635 A

L7: Entry 1 of 3

File: USPT

Nov 14, 2000

US-PAT-NO: 6146635

DOCUMENT-IDENTIFIER: US 6146635 A

TITLE: System for the expression of heterologous antigens as fusion proteins



2. Document ID: US 5286484 A

L7: Entry 2 of 3

File: USPT

Feb 15, 1994

US-PAT-NO: 5286484

DOCUMENT-IDENTIFIER: US 5286484 A

TITLE: Nucleotide sequence coding for an outer membrane protein from Neisseria meningitidis and use of said protein in vaccine preparations



3. Document ID: WO 9726359 A1 ES 2157060 T3 AU 9715396 A EP 816506 A1 BR 9704641 A HU 9800730 A2 CZ 9702910 A3 MX 9707071 A1 JP 11503617 W KR 98703043 A AU 722317 B US 6146635 A EP 816506 B1 DE 69703813 E

L7: Entry 3 of 3 .

File: DWPI

Jul 24, 1997

DERWENT-ACC-NO: 1997-402193

DERWENT-WEEK: 200149

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TITLE: Fusion protein for use as immunogen in vaccines - contains stabilising peptide derived from N-terminal 47 amino acids of Nisseria meningitidis P64k antigen

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| <u>L7</u> | P64K same (N or amino) adj2 termin\$ | 3 | <u>L7</u> |
| <u>L6</u> | TAB13 | 2 | <u>L6</u> |
| <u>L5</u> | P64K adj 47 | 1 | <u>L5</u> |
| <u>L4</u> | PM83 | 3 | <u>L4</u> |
| <u>L3</u> | 448307 | 13 | <u>L3</u> |
| <u>L2</u> | 448 adj 30 adj 7 | 0 | <u>L2</u> |
| <u>L1</u> | 448 adj2 30 adj2 7 | . 0 | <u>L1</u> |

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L7: Entry 3 of 3

File: DWPI

Jul 24, 1997

DERWENT-ACC-NO: 1997-402193

DERWENT-WEEK: 200149

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TITLE: Fusion protein for use as immunogen in vaccines - contains stabilising peptide derived from N-terminal 47 amino acids of Nisseria meningitidis P64k antigen

INVENTOR: ALVAREZ ACOSTA, A; CARPIO MUOZ, E L; DUARTE CANO, C A; GOMEZ RODRIGUEZ, C E; GUILLEN NIETO, G E; LEAL ANGULO, M; MARTIN DUNN, A M; NAZABAL GALVEZ, C; QUINTANA VAZQUEZ, D; SILVA RODRIGEZ, R C; ACOSTA, A A; ANGULO, M D J L; CANO, C A D; DUNN, A M M; GALVEZ, C N; MUNOZ, E L C; NIETO, G E G; RODRIGUEZ, C E G; RODRIGUEZ, R D L C S; VAZQUEZ, D Q; ALVAREZ, A A C; CARPIO, M E L; DE JESUS LEAL, A M; DE LA CARIDAD SILVA, R R; DUARTE, C C A; GOMEZ, R C E; GUILLEN, N G E; MARTIN, D A M; NAZABAL, G C; QUINTANA, V D; CARPIO MUNOZ, E L; LEAL ANGULO, M D J; NAZABAL GALVEZ, C A; SILVA RODRIGEZ, R D L C; DE JESUS LEAL ANGULO, M; DE LA CARIDAD SILVA RODRIGUEZ,; DE LA CARIDID SIVA RODRIGUEZ,; MUNOZ, L E C; NIETO, E G G; RODRIQUEZ, C E G

PATENT-ASSIGNEE:

ASSIGNEE

CODE

CENT ING GENETICA & BIOTECNOLOGIA

INGGN

PRIORITY-DATA: 1996CU-0000010 (January 17, 1996)

PATENT-FAMILY:

| PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
|-------------------|---|---|---|
| July 24, 1997 | S | 049 | C12N015/62 |
| August 1, 2001 | | 000 | C12N015/62 |
| August 11, 1997 | | 000 | C12N015/62 |
| January 7, 1998 | E | 025 | C12N015/62 |
| June 9, 1998 | | 000 | C12N015/62 |
| July 28, 1998 | | 000 | C12N015/62 |
| November 11, 1998 | | 000 | C12N015/62 |
| November 1, 1997 | | 000 | C12N015/62 |
| March 30, 1999 | | 043 | C12N015/02 |
| September 5, 1998 | | 000 | C12N015/62 |
| July 27, 2000 | | 000 | C12N015/62 |
| November 14, 2000 | | 000 | A61K039/00 |
| January 3, 2001 | Е | 000 | C12N015/62 |
| February 8, 2001 | | 000 | C12N015/62 |
| | July 24, 1997 August 1, 2001 August 11, 1997 January 7, 1998 June 9, 1998 July 28, 1998 November 11, 1998 November 1, 1997 March 30, 1999 September 5, 1998 July 27, 2000 November 14, 2000 January 3, 2001 | July 24, 1997 S August 1, 2001 August 11, 1997 January 7, 1998 E June 9, 1998 July 28, 1998 November 11, 1998 November 1, 1997 March 30, 1999 September 5, 1998 July 27, 2000 November 14, 2000 January 3, 2001 E | July 24, 1997 S 049 August 1, 2001 000 August 11, 1997 000 January 7, 1998 E 025 June 9, 1998 000 July 28, 1998 000 November 11, 1998 000 November 1, 1997 000 March 30, 1999 043 September 5, 1998 000 July 27, 2000 000 November 14, 2000 000 January 3, 2001 E |

DESIGNATED-STATES: AU BR CA CN CZ HU IL JP KR MX SI US AT BE CH DE DK EA ES FI FR GB GR IE IT LU MC NL PT SE AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

CITED-DOCUMENTS:2.Jnl.Ref; EP 474313; WO 9014431

APPLICATION-DATA:

| PUB-NO | APPL-DATE | APPL-NO | DESCRIPTOR |
|--------------|--------------------|----------------|----------------|
| WO 9726359A1 | January 17, 1997 | 1997WO-CU00001 | • |
| ES 2157060T3 | January 17, 1997 | 1997EP-0901516 | |
| ES 2157060T3 | | EP 816506 | Based on |
| AU 9715396A | January 17, 1997 | 1997AU-0015396 | |
| AU 9715396A | • | WO 9726359 | Based on |
| EP 816506A1 | January 17, 1997 | 1997EP-0901516 | |
| EP 816506A1 | January 17, 1997 | 1997WO-CU00001 | |
| EP 816506A1 | | WO 9726359 | Based on |
| BR 9704641A | January 17, 1997 | 1997BR-0004641 | |
| BR 9704641A | January 17, 1997 | 1997WO-CU00001 | |
| BR 9704641A | | WO 9726359 | Based on |
| HU 9800730A2 | January 17, 1997 | 1997WO-CU00001 | |
| HU 9800730A2 | January 17, 1997 | 1998HU-0000730 | |
| HU 9800730A2 | | WO 9726359 | Based on |
| CZ 9702910A3 | January 17, 1997 | 1997CZ-0002910 | |
| CZ 9702910A3 | January 17, 1997 | 1997WO-CU00001 | |
| CZ 9702910A3 | | WO 9726359 | Based on |
| MX 9707071A1 | September 17, 1997 | 1997MX-0007071 | |
| JP 11503617W | January 17, 1997 | 1997JP-0525564 | |
| JP 11503617W | January 17, 1997 | 1997WO-CU00001 | |
| JP 11503617W | | WO 9726359 | Based on |
| KR 98703043A | January 17, 1997 | 1997WO-CU00001 | |
| KR 98703043A | September 13, 1997 | 1997KR-0706451 | |
| KR 98703043A | | WO 9726359 | Based on |
| AU 722317B | January 17, 1997 | 1997AU-0015396 | |
| AU 722317B | | AU 9715396 | Previous Publ. |
| AU 722317B | | WO 9726359 | Based on |
| US 6146635A | January 17, 1997 | 1997WO-CU00001 | |
| US 6146635A | September 16, 1997 | 1997US-0930917 | |
| US 6146635A | | WO 9726359 | Based on |
| EP 816506B1 | January 17, 1997 | 1997EP-0901516 | |
| EP 816506B1 | January 17, 1997 | 1997WO-CU00001 | |
| EP 816506B1 | | WO 9726359 | Based on |
| DE 69703813E | January 17, 1997 | 1997DE-0603813 | |
| DE 69703813E | January 17, 1997 | 1997EP-0901516 | |
| DE 69703813E | January 17, 1997 | 1997WO-CU00001 | |
| DE 69703813E | | EP 816506 | Based on |
| DE 69703813E | | WO 9726359 | Based on |
| • | | | |

INT-CL (IPC): A61 K 39/00; A61 K 39/02; A61 K 39/095; A61 K 39/21; C07 K 1/22; C07 K 14/16; C07 K

14/22; CO7 K 16/12; CO7 K 19/00; C12 N 1/21; C12 N 1:21; C12 N 15/02; C12 N 15/31; C12 N 15/48; C12 N 15/62; C12 N 15/70; C12 P 21/02; C12 P 21/08; G01 N 33/569; C12 N 1/21; C12 R 1:19; C12 N 1/21; C12 R 1:19; C12 P 21/02; C12 R 1:19; C12 R 1:19

ABSTRACTED-PUB-NO: EP 816506B BASIC-ABSTRACT:

A new fusion protein consists of a stabilising peptide (I) derived from the first 47 N-terminal amino acids of the P64k antigen of Nisseria meningitidis B:4:P1.15, fused to a heterologous protein.

USE - The expression vectors are useful for the expression of immunogenic proteins intended for use in vaccines plasmids pM-80 and pM-82 express the N meningitidis outer membrane proteins Opc(5c) and PorA, respectively, the pTAB4 and pTAB9 vectors are for expressing multiple epitope-containing polypeptides which include a variety of copies of the central region of HIV-1 gp120 V3 variable region. The fusion proteins can be used in vaccines for humans and animals.

ADVANTAGE - The stabilising peptide (I) is derived from a sequence which is homologous to part of the lipoyl domain of dihydrolipoamide S-acetyltransferase, but lacks the Lys48 residue, i.e. the site of post-translational lipoylation. Fusion proteins containing (I) can be produced at high levels in inclusion bodies and the presence of (I) facilitates purification and immunodetection. The absence of lipoylation makes the fusion proteins suitable for use in human vaccines, as the likelihood of autoimmune reaction in patients having antibodies against lipoic acid (e.g. in primary biliary cirrhosis) is reduced. Expression levels for the four specific plasmids were comparable to those using part of human interleukin-2 as stabilising peptide, but the expressed proteins can be used without first having to remove (I). ABSTRACTED-PUB-NO:

US 6146635A EQUIVALENT-ABSTRACTS:

A new fusion protein consists of a stabilising peptide (I) derived from the first 47 N-terminal amino acids of the P64k antigen of Nisseria meningitidis B:4:P1.15, fused to a heterologous protein.

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WO 9726359A

CHOSEN-DRAWING: Dwg.0/12

TITLE-TERMS: FUSE PROTEIN IMMUNOGENIC VACCINE CONTAIN STABILISED PEPTIDE DERIVATIVE N TERMINAL AMINO ACID MENINGITIDIS ANTIGEN

DERWENT-CLASS: BO4 CO6 D16

CPT-CODES: B04-E08; C04-E08; B04-F10A3; C04-F10A3; B04-F10A3E; C04-F10A3E; B04-G21; C04-G21; B04-N04; C04-N04; B14-S11; C14-S11; D05-H07; D05-H09; D05-H11A; D05-H12E; D05-H14A1; D05-H17C:

CHEMICAL-CODES:

Chemical Indexing M1 *01*
Fragmentation Code
M421 M423 M710 M903 N135 Q233 V270 V280 V754

Chemical Indexing M1 *02* Fragmentation Code M423 M710 M903 Q233 V600 V611

Chemical Indexing M1 *03*
Fragmentation Code
M423 M710 M903 N135 Q233 V753

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1997-129674